## SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 378, REV. B

# HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

**DESCRIPTION:** 100 VOLT, 3 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-1/1A/1B PACKAGE.

MAXIMUM RATINGS SPECIFIED.

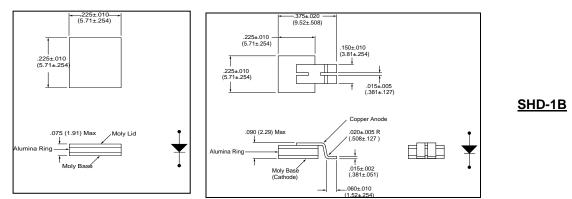
ALL RATINGS ARE @  $T_{\rm C}$  = 25 °C UNLESS OTHERWISE

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c$ =100 °C)	Ι <sub>ο</sub>	3.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I <sub>FSM</sub>	55	Amps
(t=8.3ms, Sine)			
$MAXIMUM JUNCTION CAPACITANCE (V_r = 5V)$	CT	100	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	7.07	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

### ELECTRICAL CHARACTERISTICS

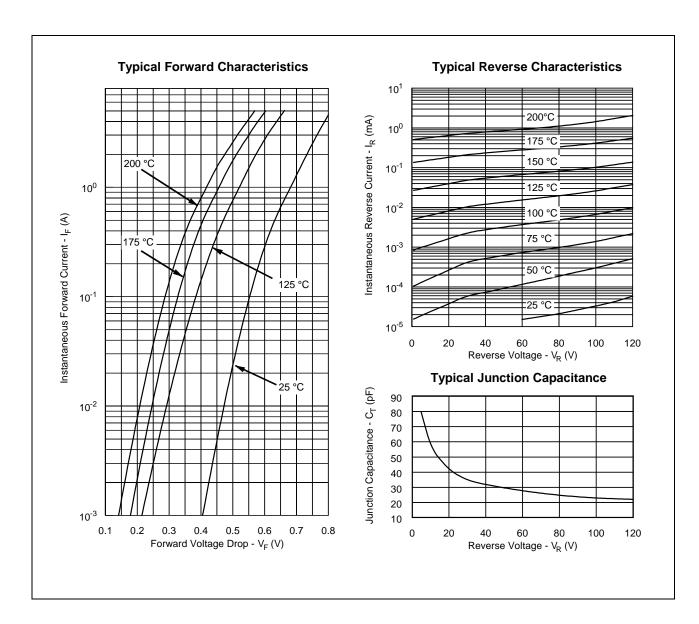
CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, I	Pulsed (I <sub>f</sub> = 3.0 Amps)			
	T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.84	Volts
	T <sub>J</sub> = 125 °C	- 1	0.68	
MAXIMUM REVERSE CURRENT (Ir @ 100V PIV)				
	T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.07	mA
	T <sub>J</sub> = 125 °C		1.6	

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**MECHANICAL DIMENSIONS: In Inches / mm** 





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